

AMENDMENTS TO THE CLAIMS:

Please amend the Claims as follows:

1. (Currently Amended) A radio base station for performing a radio communication with a plurality of mobile stations, each of which has a plurality of antennas, ~~with a space division multiplex method,~~ the radio base station being characterized by:

~~transmitting, when the radio base station starts a communication with a mobile station by the space division multiplex method, an instruction to stop performing a diversity reception using the plurality of antennas to the mobile station,~~

~~wherein the mobile station stops the diversity reception using the plurality of antennas and performs a reception using one antenna~~

a capacity to establish a radio connection with each of the plurality of mobile stations, optionally using a space division multiplex method; and

when the radio base station and the plurality of mobile stations have established radio connection using the space division multiplex method, and the radio base station starts a communication with one of the plurality of mobile stations using the space division multiplex method, transmitting to the mobile station an instruction to stop performing a diversity reception that uses a plurality of antennas, and to start performing a reception that uses a single antenna.

2. (Original) The radio base station of Claim 1 comprising:

a creation means for creating a piece of traffic channel assignment

information after receiving a traffic channel assignment request from a mobile station;

an attachment means for attaching the diversity reception stop instruction to the piece of traffic channel assignment information; and

a transmission means for transmitting the piece of traffic channel assignment information with the diversity reception stop instruction, to the mobile station as a response to the traffic channel assignment request.

3. (Original) The radio base station of Claim 1 comprising:

a determination means for determining, after receiving a traffic channel assignment request from a mobile station, whether to allow the mobile station to space-division-multiplex with another mobile station which has communicated with the radio base station;

a creation means for creating a piece of traffic channel assignment information when the determination means determines to allow the mobile station to space-division-multiplex with the other mobile station;

an attachment means for attaching the diversity reception stop instruction to the piece of traffic channel assignment information; and

a transmission means for transmitting the piece of traffic channel assignment information with the diversity reception stop instruction, to the mobile station as a response to the traffic channel assignment request, and transmitting the diversity reception stop instruction to the other mobile station through a traffic channel.

4 – 6. (Canceled)